

CLAIMS

The claims are 1-18.

1. (original) Form X olanzapine characterized by a melting point in the range from 187°C to 191°C.
2. (original) Form X olanzapine characterized by a small peak at about 11.05 d-spacing units in its powder x-ray diffraction pattern.
3. (original) Form X olanzapine of claim 1 having a powder x-ray diffraction pattern with characteristic peaks at about 11.05, 9.98, 6.24, 6.13, 3.75, 3.61, 3.53, 3.43 and 2.67 d-spacing units.
4. (original) Form X olanzapine of claim 3 having a melting point of 187°C to 190°C.
5. (original) Form X olanzapine of claim 4 having a melting point range of 189°C to 190°C.
6. (original) Form X olanzapine of claim 5 having a powder x-ray diffraction pattern with characteristic peaks at about 11.05, 9.98, 6.24, 6.13, 3.75, 3.61, 3.53, 3.43 and 2.67 d-spacing units.
7. (amended) Form X ~~olanzapine~~ olanzapine of claim 4 having a powder x-ray diffraction pattern with characteristic peaks at about 11.05, 9.98, 6.24, 6.13, 4.83, 4.71, 4.57, 4.48, 4.39, 4.32, 3.84, 3.75, 3.61, 3.53, 3.43, 2.95, 2.86, 2.67, 2.43 and 2.36 d-spacing units.
8. (original) Form X olanzapine of claim 5 having a powder x-ray diffraction pattern with characteristic peaks at about 11.05, 9.98, 6.24, 6.13, 4.83, 4.71, 4.57, 4.48, 4.39, 4.32, 3.84, 3.75, 3.61, 3.53, 3.43, 2.95, 2.86, 2.67, 2.43 and 2.36 d-spacing units.
9. (original) Form X olanzapine of claim 4 further characterized by the absence of powder x-ray diffraction peaks at about 10.2 to 10.3 d-spacing units.
10. (original) Form X olanzapine of claim 4 further characterized by the absence of powder x-ray diffraction peaks in the range from 8.0 to 8.9.
11. (original) Form X olanzapine of claim 4 further characterized by the absence of powder x-ray diffraction peaks at 4.98 or 4.94 d-spacing units.
12. (original) Form X olanzapine of claim 4 further characterized by the absence of powder x-ray diffraction peaks at about 10.2 to 10.3, in the range from 8.0 to 8.9, or at 4.98 or 4.94 d-spacing units.

13. (original) Form X olanzapine of claim 2 having a melting point range of 189°C to 190°C.
14. (original) A process for preparing crystalline olanzapine which comprises crystallizing olanzapine from an aqueous crystallization solution of a lower aliphatic ketone of the formula $C_1-C_3-C(O)-C_1-C_3$.
15. (original) A process of claim 14 wherein the lower aliphatic ketone is acetone or methyl ethyl ketone.
16. (original) A process of claim 15 wherein the aqueous crystallization solution contains the lower aliphatic ketone and water in a ratio of from about 4:1 to about 1:1.
17. (original) A process of claim 16 wherein the ratio is about 2:1.
18. (original) A process of claim 14 wherein the crystalline olanzapine is Form X olanzapine.